

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P572898

Luminaire Tested: **ARCH-S-PA2-130-730-U-T2U-HSS**

Issue Date: 10/13/2021

Test Information

Test Method: LM-79-08
Report Number: P572898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2108-332-16)
Test Lab: INNOVATION CENTER
Issue Date: 10/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA2-130-730-U-T2U-HSS
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 1295mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II U OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10142 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

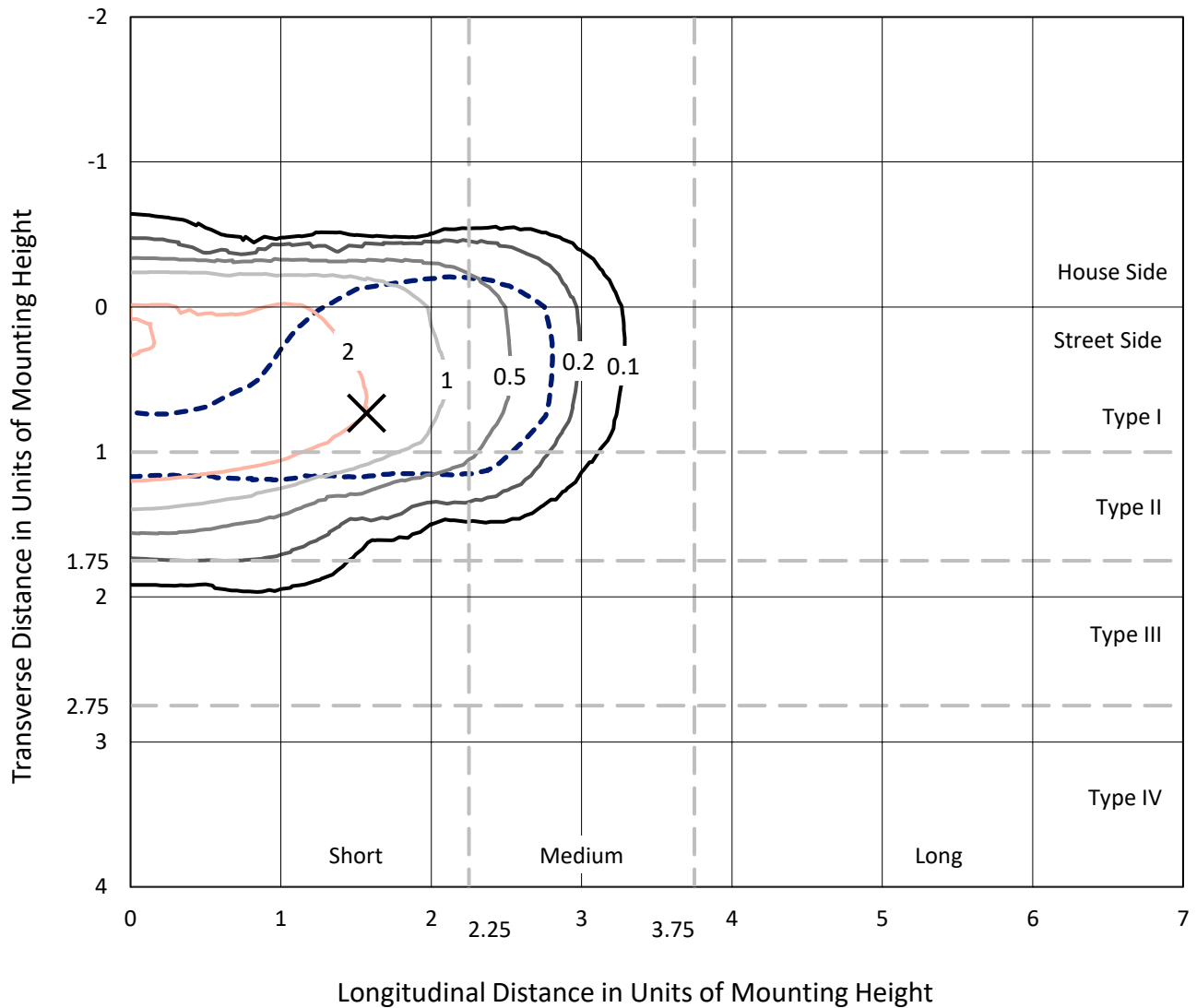
Input Watts (W): 131.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

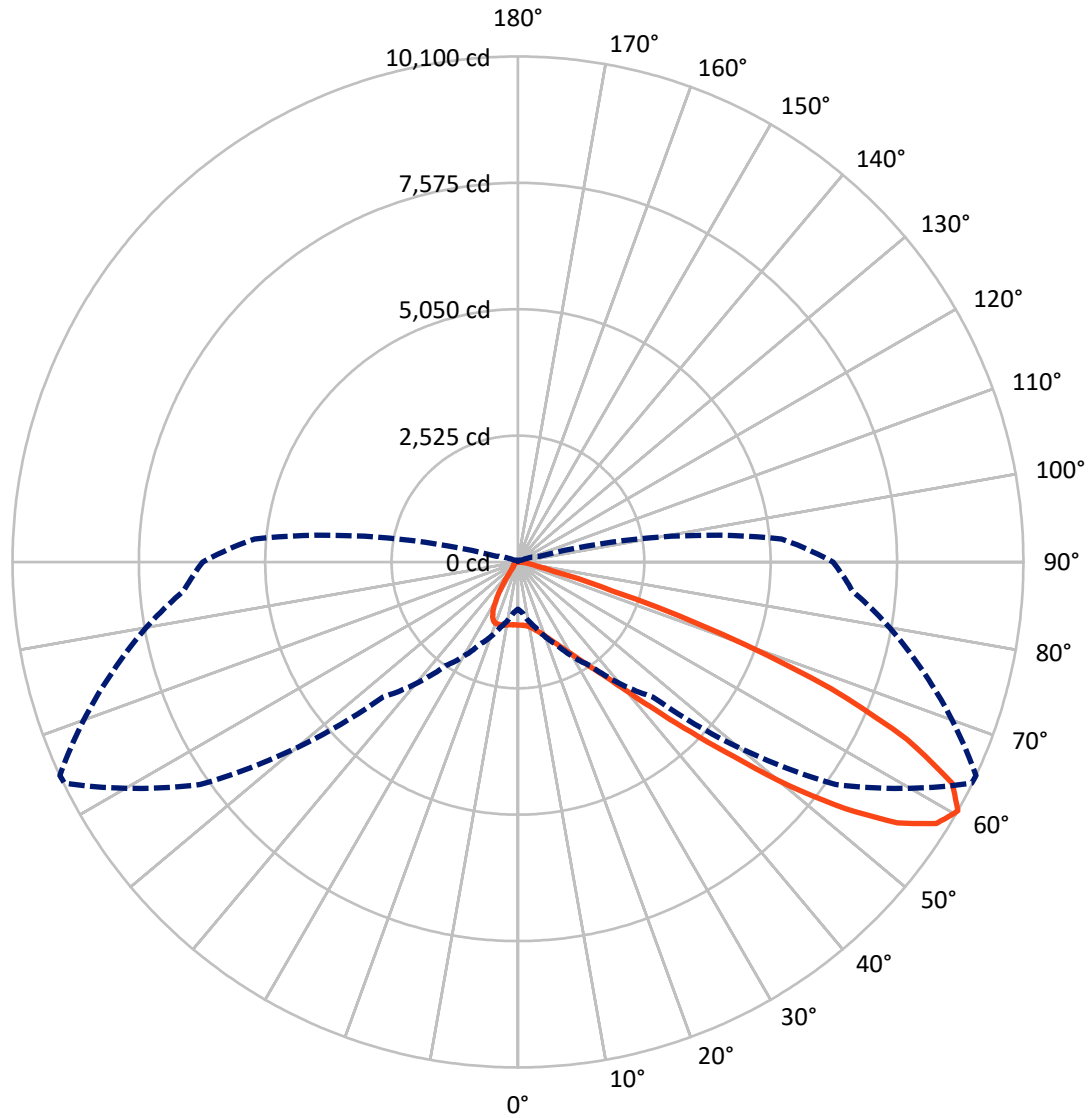
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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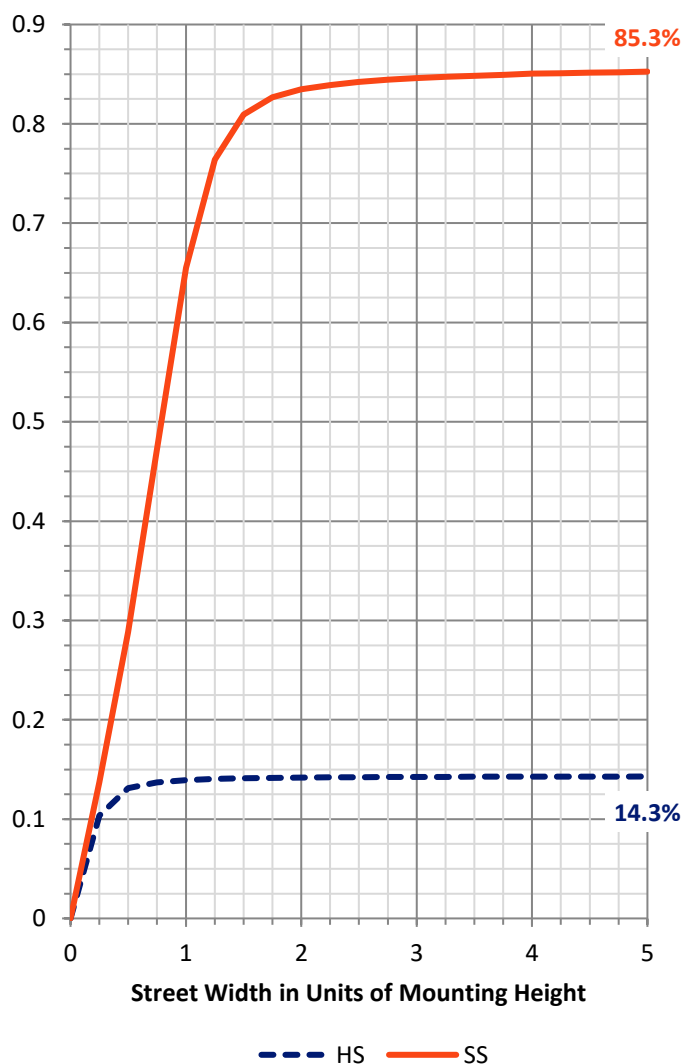
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1468.3	0.0	1468.3
	% Fixture	14.5	0.0	14.5
Street Side	Lumens	8673.7	0.0	8673.7
	% Fixture	85.5	0.0	85.5
Total	Lumens	10142.0	0.0	10142.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	1.2
10°-20°	338.8	3.3
20°-30°	575.5	5.7
30°-40°	1187.4	11.7
40°-50°	2388.1	23.5
50°-60°	2922.3	28.8
60°-70°	2067.4	20.4
70°-80°	498.2	4.9
80°-90°	45.0	0.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	10142.0	100.0
0°-180°	10142.0	100.0

Coefficient of Utilization



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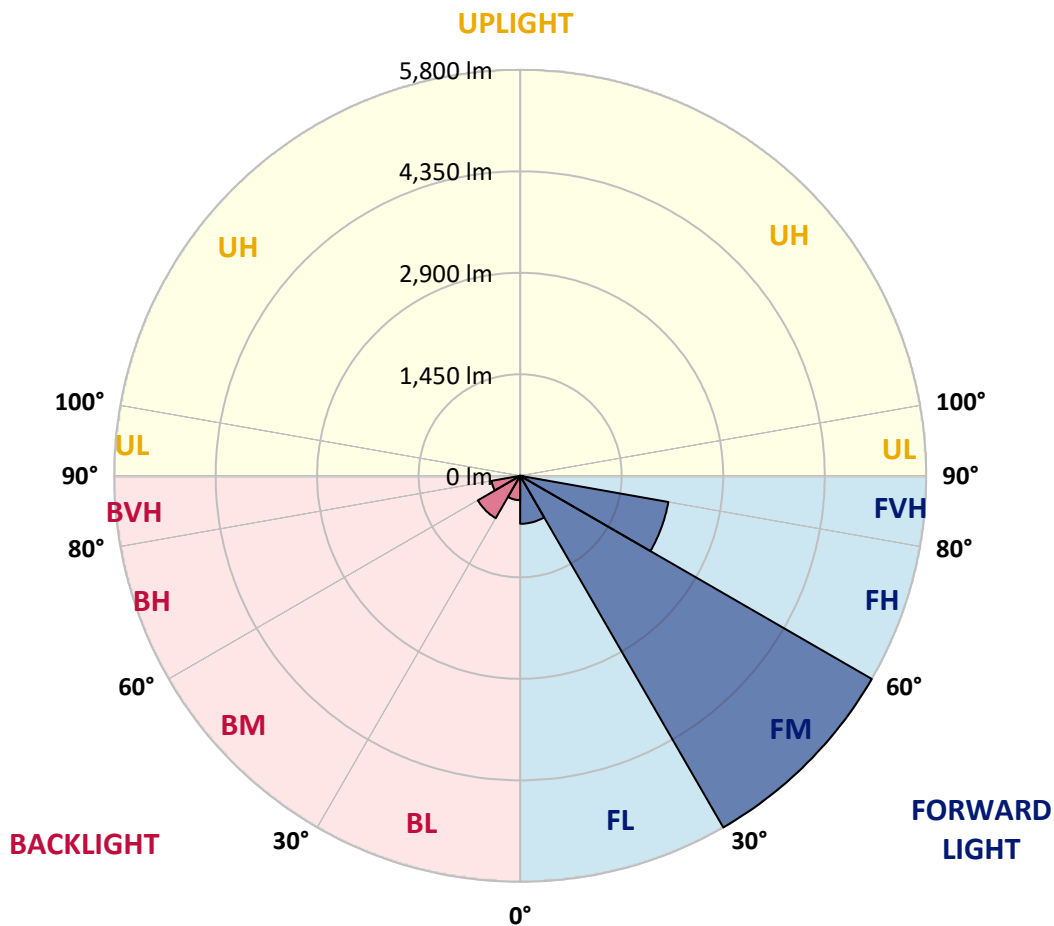
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.6	6.8			
FM (30°-60°)	5799.6	57.2			
FH (60°-80°)	2149.3	21.2			G2/5000
FVH (80°-90°)	39.2	0.4			G1/100
BL (0°-30°)	348.1	3.4	B1/500		
BM (30°-60°)	698.2	6.9	B1/1000		
BH (60°-80°)	416.2	4.1	B1/500		G1/500
BVH (80°-90°)	5.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4
2.5°	1267.4	1263.4	1263.4	1263.4	1267.4	1267.4	1271.4	1263.4	1263.4	1263.4	1263.4
5°	1259.4	1255.4	1255.4	1259.4	1263.4	1263.4	1271.4	1271.4	1271.4	1275.4	1275.4
7.5°	1275.4	1267.4	1267.4	1271.4	1275.4	1275.4	1283.4	1287.4	1287.4	1295.4	1299.4
10°	1295.4	1291.4	1291.4	1299.4	1307.4	1307.4	1319.4	1319.4	1319.4	1327.4	1331.4
12.5°	1323.4	1319.4	1319.4	1331.4	1343.4	1351.4	1359.4	1363.4	1367.4	1367.4	1367.4
15°	1363.4	1359.4	1359.4	1371.4	1387.4	1407.4	1419.4	1419.4	1427.4	1423.4	1407.4
17.5°	1419.4	1415.4	1419.4	1427.4	1447.4	1467.3	1491.3	1495.3	1491.3	1483.3	1459.4
20°	1511.3	1499.3	1507.3	1527.3	1527.3	1539.3	1571.3	1583.3	1587.3	1563.3	1519.3
22.5°	1607.3	1607.3	1615.3	1639.3	1623.3	1639.3	1667.3	1687.3	1695.2	1675.3	1603.3
25°	1787.2	1795.2	1783.2	1775.2	1735.2	1743.2	1779.2	1819.2	1819.2	1803.2	1699.2
27.5°	2183.0	2175.0	2091.1	1975.1	1871.2	1879.2	1915.2	1967.1	1971.1	1935.1	1795.2
30°	2750.8	2758.8	2594.8	2331.0	2103.1	2043.1	2083.1	2143.0	2151.0	2091.1	1919.1
32.5°	3638.4	3570.4	3266.6	2914.7	2486.9	2271.0	2287.0	2351.0	2374.9	2323.0	2115.1
35°	4785.9	4625.9	4170.2	3734.3	3114.6	2678.8	2554.9	2622.8	2634.8	2606.8	2359.0
37.5°	5469.6	5341.6	5045.8	4649.9	3922.3	3222.6	2906.7	2974.7	2962.7	2906.7	2602.8
40°	5893.4	5821.4	5661.5	5477.6	5013.8	4078.2	3486.5	3430.5	3434.5	3354.5	2998.7
42.5°	6133.3	6069.3	6009.3	6057.3	5921.4	5629.5	4326.1	4070.2	4046.2	3894.3	3458.5
45°	6145.3	6049.3	6121.3	6401.2	6617.1	7004.9	5421.6	4829.9	4841.9	4590.0	4030.2
47.5°	5685.5	5609.5	5817.4	6365.2	7080.9	7904.5	6697.0	5869.4	5813.4	5317.6	4610.0
50°	4777.9	4773.9	5049.8	5825.4	7080.9	8368.3	8064.4	7088.9	7028.9	6077.3	5137.7
52.5°	3782.3	3858.3	4046.2	4781.9	6429.1	8324.3	9072.0	8348.3	8180.4	6753.0	5577.5
55°	2942.7	2914.7	3142.6	3650.4	5097.7	7564.6	9399.8	9339.9	9199.9	7352.7	5965.4
57.5°	1807.2	1911.2	2219.0	2670.8	3710.4	5949.4	8928.0	9943.6	9859.6	7912.5	6369.2
60°	939.6	1019.5	1351.4	1823.2	2534.9	3814.3	7748.6	10083.5	10099.5	8364.3	6713.0
62.5°	591.7	587.7	739.7	1279.4	1631.3	2143.0	6017.3	9587.7	9739.7	8712.1	7040.9
65°	443.8	447.8	507.8	847.6	1107.5	1119.5	3570.4	8292.3	8544.2	8804.1	7152.8
67.5°	411.8	415.8	443.8	555.8	831.6	747.7	1571.3	6393.2	6745.0	7956.5	6721.0
70°	367.8	371.8	415.8	459.8	627.7	547.8	707.7	3850.3	4338.1	5773.4	5377.6
72.5°	287.9	295.9	347.8	435.8	467.8	415.8	491.8	1703.2	1987.1	3174.6	3078.6
75°	211.9	215.9	263.9	335.9	411.8	295.9	379.8	675.7	739.7	1191.5	1015.5
77.5°	147.9	147.9	183.9	251.9	343.8	207.9	271.9	363.8	371.8	443.8	291.9
80°	92.0	96.0	115.9	171.9	211.9	199.9	167.9	243.9	243.9	231.9	119.9
82.5°	52.0	56.0	80.0	115.9	143.9	135.9	108.0	139.9	143.9	147.9	68.0
85°	24.0	28.0	48.0	72.0	84.0	64.0	64.0	72.0	72.0	96.0	40.0
87.5°	4.0	4.0	24.0	32.0	28.0	32.0	32.0	40.0	40.0	48.0	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4	1263.4
2.5°	1259.4	1259.4	1259.4	1255.4	1255.4	1251.4	1243.4	1243.4	1243.4	1243.4	1247.4
5°	1275.4	1271.4	1267.4	1255.4	1247.4	1231.5	1215.5	1211.5	1199.5	1199.5	1203.5
7.5°	1295.4	1295.4	1283.4	1263.4	1243.4	1215.5	1187.5	1167.5	1147.5	1143.5	1139.5
10°	1331.4	1323.4	1311.4	1275.4	1243.4	1199.5	1155.5	1103.5	1063.5	1043.5	1035.5
12.5°	1359.4	1355.4	1331.4	1291.4	1239.5	1171.5	1071.5	951.6	855.6	803.6	803.6
15°	1399.4	1391.4	1355.4	1299.4	1227.5	1067.5	863.6	679.7	575.7	519.8	511.8
17.5°	1439.4	1423.4	1379.4	1303.4	1175.5	879.6	603.7	435.8	363.8	335.9	327.9
20°	1487.3	1459.4	1395.4	1307.4	1047.5	639.7	391.8	291.9	263.9	251.9	255.9
22.5°	1551.3	1503.3	1411.4	1283.4	855.6	415.8	275.9	235.9	219.9	207.9	207.9
25°	1631.3	1563.3	1439.4	1215.5	619.7	279.9	219.9	195.9	179.9	171.9	167.9
27.5°	1703.2	1619.3	1467.3	1095.5	395.8	219.9	183.9	163.9	147.9	143.9	139.9
30°	1799.2	1683.3	1495.3	903.6	259.9	179.9	155.9	135.9	123.9	119.9	119.9
32.5°	1963.1	1807.2	1547.3	687.7	195.9	155.9	131.9	115.9	108.0	104.0	104.0
35°	2155.0	1959.1	1591.3	479.8	167.9	131.9	112.0	100.0	96.0	92.0	92.0
37.5°	2355.0	2139.1	1599.3	303.9	147.9	115.9	100.0	92.0	84.0	84.0	84.0
40°	2714.8	2454.9	1563.3	203.9	127.9	104.0	88.0	84.0	76.0	76.0	76.0
42.5°	3134.6	2838.7	1471.3	163.9	115.9	92.0	84.0	76.0	68.0	68.0	64.0
45°	3678.4	3274.5	1315.4	143.9	104.0	84.0	76.0	68.0	64.0	60.0	60.0
47.5°	4190.1	3770.3	1167.5	127.9	96.0	80.0	68.0	60.0	56.0	56.0	56.0
50°	4677.9	4150.2	995.6	119.9	88.0	76.0	64.0	56.0	52.0	48.0	48.0
52.5°	5029.8	4450.0	835.6	108.0	80.0	68.0	60.0	52.0	44.0	40.0	40.0
55°	5421.6	4753.9	691.7	96.0	76.0	64.0	52.0	44.0	36.0	32.0	32.0
57.5°	5861.4	5049.8	559.8	88.0	72.0	56.0	44.0	36.0	28.0	24.0	24.0
60°	6297.2	5285.7	447.8	80.0	64.0	52.0	40.0	28.0	20.0	16.0	16.0
62.5°	6733.0	5445.6	343.8	72.0	60.0	44.0	32.0	20.0	12.0	8.0	8.0
65°	6912.9	5401.6	255.9	64.0	52.0	36.0	28.0	20.0	12.0	8.0	8.0
67.5°	6413.2	4857.8	179.9	64.0	48.0	36.0	24.0	16.0	8.0	4.0	4.0
70°	5005.8	3750.3	131.9	64.0	48.0	36.0	24.0	16.0	8.0	4.0	4.0
72.5°	2838.7	2087.1	100.0	56.0	44.0	32.0	24.0	16.0	8.0	4.0	4.0
75°	1011.6	671.7	76.0	52.0	40.0	28.0	24.0	16.0	8.0	4.0	4.0
77.5°	243.9	171.9	60.0	44.0	36.0	28.0	20.0	16.0	12.0	4.0	4.0
80°	100.0	72.0	48.0	36.0	28.0	24.0	20.0	16.0	8.0	4.0	4.0
82.5°	44.0	36.0	20.0	20.0	16.0	16.0	16.0	16.0	8.0	4.0	4.0
85°	20.0	16.0	8.0	8.0	4.0	4.0	4.0	8.0	8.0	4.0	4.0
87.5°	12.0	8.0	8.0	8.0	4.0	4.0	4.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)